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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/746,716	1	2/22/2000	Gary W. Grube	276440-11	1179
27521	7590	12/22/2004		EXAMINER	
KEN BURI			ABRAMS, NEIL		
KIRTON & PO BOX 45		JE		ART UNIT	PAPER NUMBER
SALT LAK	E CITY, U	CITY, UT 84145-0120		2839	
				DATE MAILED: 12/22/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/746,716	GRUBE ET AL.	•
Office Action Summary	Examiner	Art Unit	
	Neil Abrams	2839	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence ad	dress
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, and If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of the riod will apply and will expire SIX (6) MC tatute, cause the application to become A	a reply be timely filed hirty (30) days will be considered timel DNTHS from the mailing date of this control of the control of	y. ommunication.
Status ·			
 1) Responsive to communication(s) filed on 2 2a) This action is FINAL 2b) 3 3) Since this application is in condition for allocation accordance with the practice under the condition of the condition o	This action is non-final.		e merits is
Disposition of Claims			
4)⊠ Claim(s) <u>1-14, 16-33,35-</u>	51,61-6884		is/are pending
the application			
4a) Of the above claim(s)	W.D		
Application Papers		·	
9)☐ The specification is objected to by the Exar	miner		
10) The drawing(s) filed on is/are: a)		by the Examiner.	
Applicant may not request that any objection to	4		
Replacement drawing sheet(s) including the co			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for form a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in priority documents have bee ureau (PCT Rule 17.2(a)).	Application No en received in this National	Stage _.
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interviev	v Summary (PTO-413)	
2 Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date	Paper No	o(s)/Mail Date f Informal Patent Application (PT	O-152)

Art Unit: 2839

Note, for rejections below, that this case being a CIP is not necessarily entitled to filing date benefit of earlier cases in absence of evidence as would be pertinent where priority date is at issue.

Claim 16, note dependency from cancelled claim.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-8, 10-15, 17-51, 61-63, 65-67, 69-84 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-15 of U.S. Patent No. 6,811,406. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of this case which call for "post beam" and "tip" define broadened variations of parent case claims.

Since the case used in this rejection has issued, a terminal disclaimer is now required.

The indicated allowability of claim 22 over patents to others is withdrawn.

Application/Control Number: 09/746,716

Art Unit: 2839

Claims 1-8, 10, 13-14, 30, 21, 31, 32, 35-40, 61-63, 66, 67, are rejected under 35 U.S.C. 103(a) as being unpatentable over white in view of Fjelstad, Beaman 615, Hosoi, and Love.

White, Fjelstad and Beaman 614 are applied as in last office action.

The Whiite post (core) doe sot, include an overcoat of a harder material. It would have been obvious to use an overcoat of material such as nickel in view of Love, fig. 2 at 25 and Hosoi, fig. 2, etc at 3 and Beaman 551. The nickel is used to aid soldering and lowers stress as in Love and to lessen oxidation when used with gold as in Hosoi. Note that White at 21 uses gold to lessen oxidation and that a nickel layer is typically used unelear a gold layer. Obvious to add such nickel layer to post 16 of White for reasons noted above. Nickel is also seen to be harder that the copper used for post 16. Use of gold over nickel further shown by Beaman 551 to be well known. Dependent claims are not seen to be separately at issue.

Claims 70-73, 77-80 and 81-84 are rejected under 35 U.S.C. 103(a) as being ssl
unpatentable over White in view of Beaman Hosoi and Love.

The patents are applied as above.

Olaims 22-29, 74-76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eldridge '315 in view of Kanji.

Eldridge fig. 1, discloses a column a wire 12 and a contact 14. The wire lacks a shell. It would have been obvious to add nickel and gold plating in view of Kanji, fig. 1D, for improved soldering. The platings are read as shells. For claims 23, 24, the nickel would be harder than copper. Other claims are not at issue.

Application/Control Number: 09/746,716

Art Unit: 2839

Claims 1, 3, 4, 6-8, 10, 12, 22-30, 70-74 and 74-76 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Beaman 551.

For claim 22, Beaman figs. 1-9 dhows a contact structure with plural columns each one with wire core elements 15 and overcoats 17 and a contact element 61 at the column tops, the columns fixed to base 11. Should issues arise, recited features considered obvious variations. For claim 23-24, obvious the plating 17 would be more rigid that the wires 15 since the wires are typically copper while nickel is usable for the plating, col. 5, lines 50-55. For clam 1 above discussion applied; obvious to use copper softer for the core which would be safer, than the nickel plating. The Beaman contacts while deflectable are also readable as substantially rigid sine the deflection need only be very slight. Dependent claims do not appear to be independently at issue.

As alternative obvious to form the columns 15, 17 to be of greater rigidity if higher forces were required.

As another alternative, for claims 1, etc, obvious to use rigid fig. 10 probes 71 with addition of sharp projections 19 (Figs. 2, 9) the projections being contacts joined to ends of the columns.

The following is an examiner's statement of reasons for allowance: claim 41 overcomes Beaman 614, fig. 1, since beams 24 cannot properly be read as joined to "tops" of the columns 22, the terms read in light of disclosure.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

Application/Control Number: 09/746,716 Page 5

Art Unit: 2839

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Applicant's arguments filed with the amendment have been fully considered but they are not persuasive. References are now applied to shoe the features at issue.

Claims 33, 41, 45-51 and 65 are directed to allowable subject matter apart from double patenting rejection.

Any inquiry concerning this communication should be directed to Neil Abrams at telephone number (571)272-2089.

Abrams/ds

12/17/04

MEIL ABRAMS
EXAMINER
18T UNIT 200